



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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ALHAMBRA, CALIFORNIA 91802-1460

April 4, 2013

IN REPLY PLEASE

REFER TO FILE: **SM-1**

Mr. Edward Hitti, Director of Public Works
City of La Cañada Flintridge
1327 Foothill Boulevard
La Cañada Flintridge, CA 91011-2137

Attention Mr. Nasser Shoushtarian

Dear Mr. Hitti:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV0910C**

This letter is to inform you that as part of our Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 81,448 feet or 29.7 percent of the City of La Cañada Flintridge's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP Version 6.0.1) rating methodology. Included in the report are the following:

- Condition Assessment Report
- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Report Priority List and Quick Maintenance Rating Map (Enclosure 2)
- High Water Levels List and Map (Enclosure 2)
- Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

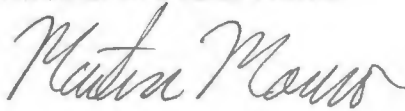
Mr. Edward Hitti
April 4, 2013
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance schedule for continued monitoring. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of our ongoing Accumulative Capital Outlay Program.

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division



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Enc.

**CONDITION ASSESSMENT REPORT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

PROJECT NAME:	Y0TV0910C	PROJECT MGR:	Hanna Kebede
PROJECT DATE:	01/27/2011	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(s):	5	MAP PAGE(S):	1851 & 1852
Report By:	Hanna Kebede	Report Date:	02/09/2013

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 81,448 feet or 29.7percent of the City of La Canada- Flintridge's sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP Version 6.0.1) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project Y0TV0910C included sewer lines located in the Unincorporated County of Los Angeles area and in the Cities of Bell Gardens, Industry, Diamond Bar, La Canada Flintridge, and Walnut. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects, while a grade of 5 indicates that a pipe segment may require immediate attention. A detailed breakdown of the five possible defect grades is as follows:

Grade	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

MAINTENANCE REPORT

Our inspection revealed that approximately 75.3 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 24.7 percent of the inspected pipe segments within the City of Diamond Bar area had a PACP maintenance grade of 3, 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

In addition, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	49,224	60.4	262
2: Minor to Moderate	12,110	14.9	64
3: Moderate	7,434	9.1	42
4: Significant	11,149	13.7	55
5: Most Significant	1,531	1.9	6
TOTAL	81,448	100.0	429

Lateral Notices

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines; it is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. A letter will be sent to the lateral owner notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

High Water Levels

Our inspection revealed that approximately 99.6 percent of the system televised has adequate capacity. However, the remaining 0.4 percent of the inspected segments included deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which have indicated camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50% of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50% or greater due to heavy flows in adjoining pipes, a

temporary stoppage due to debris in the sewer lines, or a sag in the line. Therefore, additional review of all pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50% capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

Infiltration

Our inspection revealed that approximately 0.6 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration has been found are listed on the Infiltration table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project.

A map showing the sewer lines with high water levels and infiltration is provided in Enclosure 2.

STRUCTURAL REPORT

Our inspection revealed that approximately 97.1 percent of the inspected pipe segments within the City of Diamond Bar were free of severe structural defects. However, the remaining 2.9 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 10 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 10 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	65,019	79.8	347
2: Minor to Moderate	12,144	14.9	61
3: Moderate	1,965	2.4	11
4: Significant	421	0.6	2
5: Most Significant	1,899	2.3	8
TOTAL	81,448	100.0	429

CONDITION ASSESSMENT PROJECTS

The Sewer Condition Assessment Program has performed the following closed-circuit television (CCTV) inspections within the City of La Canada- Flintridge.

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-2006	Y0TV0506D	9,255	3.4	COMPLETED
2009-2010	Y0TV0910C	81,448	29.7	COMPLETED
2011-2012	Y0TV1112B	83,659	30.6	IN PROGRESS
2012-2013	Y0TV1213B	99,325	36.3	FUTURE
TOTAL		273,687	100.0	

ENCLOSURE 1:

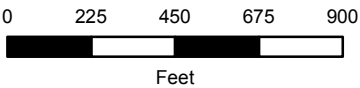
Project Overview Map

OVERVIEW

CCTV PROJECT

Y0TV0910C

Supervisory District 5
City of
LaCanada-Flintridge



Legend

SMD Sanitary Sewers

— SMD Sanitary Sewers

SMD Manholes

⊙ Other

Manhole Type

● Standard

△ DROP

■ Shallow

◇ Trap

⊗ Siphon

■ SMD Pump Stations

■ SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

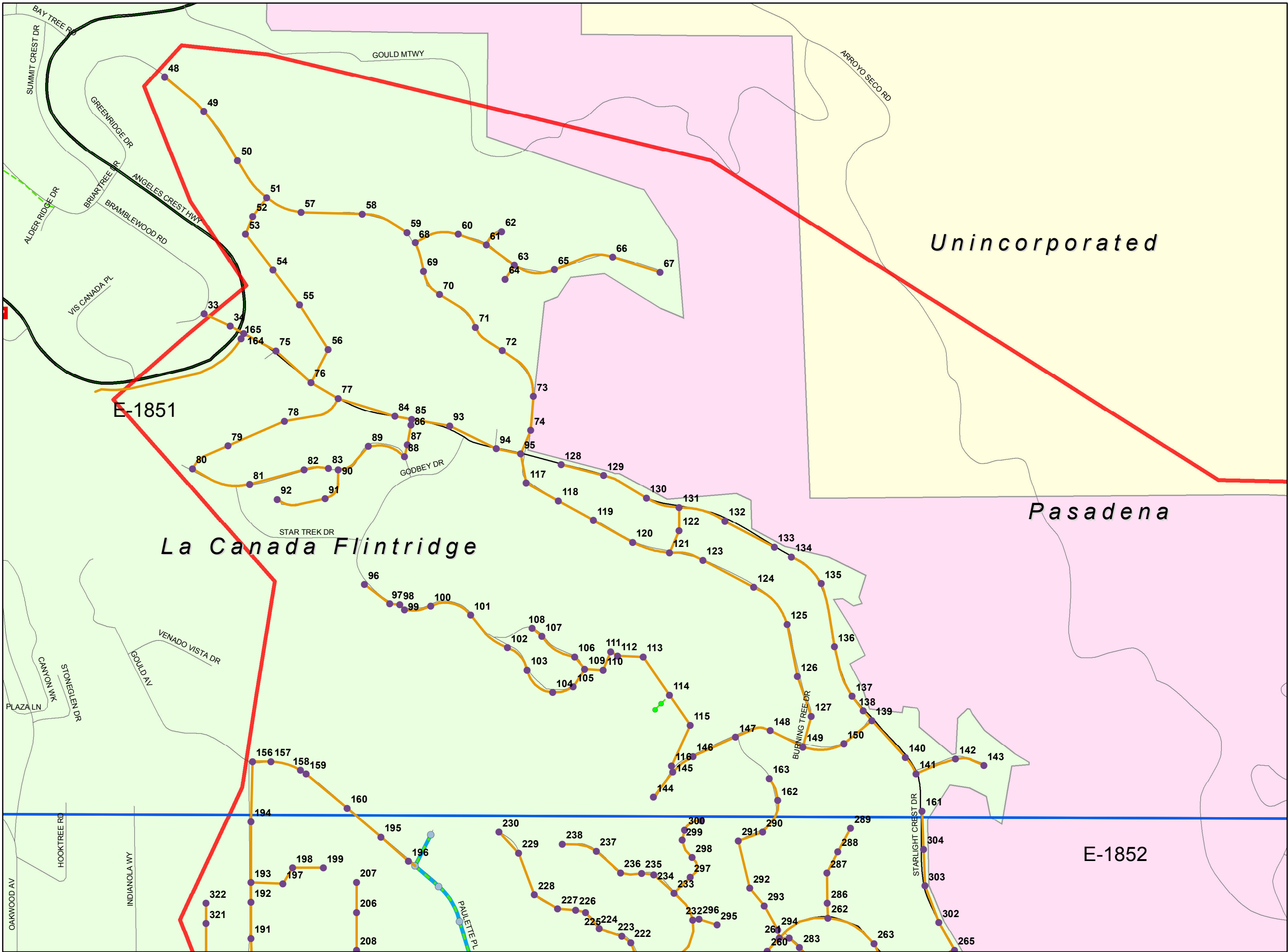
● Non SMD Maintained MH

□ SMD Operations Maps

□ Y0TV0910C

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February 2012

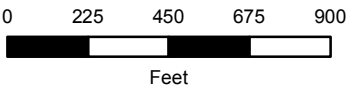


OVERVIEW

CCTV PROJECT

Y0TV0910C

**Supervisory District 5
City of
La Canada-Flintridge**



Legend

SMD Sanitary Sewers

— SMD Sanitary Sewers

SMD Manholes

○ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◆ Trap

⊗ Siphon

■ SMD Pump Stations

■ SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

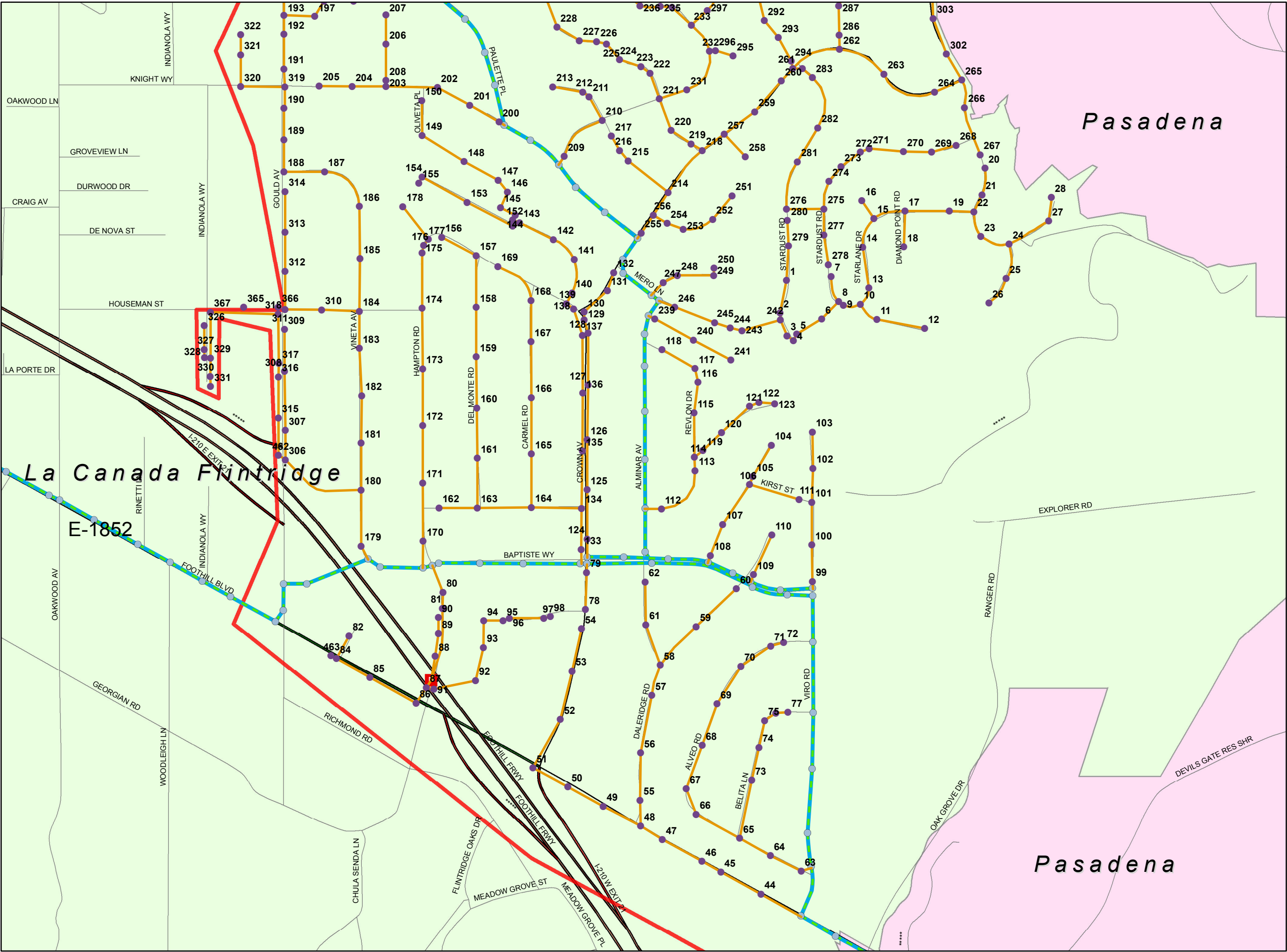
● Non SMD Maintained MH

□ SMD Operations Maps

□ Y0TV0910C

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February 2012



ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map
- High Water Levels
- Infiltration
- High Water Levels and Infiltration Map
- Sample Lateral Notice Letter

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF LA CANADA-FLINTRIDGE (Y0TV0910C)
as of 01/27/2011

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken	Completed Date
1	511E	1852-0210	1852-0209	REDWILLOW LN	Obstacle Bulit inside MH 0209	Hydrojet	12/12/2012
2	5132	1852-0256	1852-0255	CROWN AV	Deposits Attached Grease :119'-126' & Obstacle Bulit inside MH 0255	Hydrojet	12/12/2012
3	5121	1852-0240	1852-0239	EASEMENT	Obstacle Bulit inside MH 0239	Hydrojet	01/16/2013
4	5100	1852-0064	1852-0063	LAMOUR DR	Obstacle Bulit inside MH 0063	Hydrojet	12/12/2012
5	5100	1852-0100	1852-0099	VIRO RD	Obstacle Bulit inside MH 0099	Hydrojet	12/12/2012
6	5100	1852-0171	1852-0170	HAMPTON RD	Obstacle Bulit inside MH 0170	Hydrojet	12/12/2012
7	4931	1851-0079	1851-0078	EASEMENT	Water Level Sag, 55 % & Camera Underwater :212' - 248'	Hydrojet	12/07/2012
8	4523	1852-0020	1852-0021	STARLIGHT CREST DR	Roots Ball Lateral : 4' 16' 29' 78' and 111'	Lateral notice will be sent to property owner.	N/A
9	4332	1851-0150	1851-0149	MEADOWVIEW DR	Roots & Roots Ball Lateral :219	Rodded	11/30/2012
10	4331	1852-0164	1852-0134	SAN JUAN WY	Roots Ball connection: 188'	Rodded	12/03/2012
11	4231	1851-0133	1851-0132	STARLIGHT CREST DR	Roots Ball connection: 59'	Rodded	11/30/2012
12	4231	1852-0078	1852-0079	CROWN AV	Roots Medium connection : 231'	Rodded	12/03/2012
13	4231	1852-0314	1852-0313	GOULD AV	Roots Medium connection : 87'	Rodded	11/30/2012
14	422H	1852-0282	1852-0283	STARDUST RD	Alignment Left 30%: 39' & 113'	No action needed.	N/A
15	422C	1852-0026	1852-0025	STARLIGHT MESA LN	Roots Ball Lateral : 8' and 134'	Lateral notice will be sent to property owner.	N/A
16	411G	1851-0103	1851-0104	GODBAY DR	Roots Ball connection : 77'	Hydrojet	12/07/2012
17	4215	1851-0132	1851-0131	STARLIGHT CREST DR	Roots Ball connection : 76'	Rodded	11/30/2012
18	4200	1851-0115	1851-0114	Easement	Obstacle Rocks : 62' & 97'	Hydrojet	12/07/2012
19	4200	1852-0195	1852-0196	PAULETTE PL	Infil Runner : 187'	No action needed.	N/A
20	4200	1852-0208	1852-0203	KNIGHT WY	Alignment Down 30% & 45% : 0' & 10'	No action needed.	N/A
21	4134	1851-0099	1851-0100	GODBAY DR	Roots & Deposits Attached Grease	Rodded	11/30/2012
22	4132	1851-0129	1851-0130	STARLIGHT CREST DR	Roots Medium Lateral : 188'	Lateral notice will be sent to property owner.	N/A
23	4132	1852-0234	1852-0233	REDWILLOW LN	Roots Ball Joint: 91'	Rodded	12/03/2012
24	4132	1851-0109	1851-0110	EASEMENT	Roots Medium connection :96'	Rodded	11/30/2012
25	4131	1852-0121	1852-0120	RUPERT LN	Roots Medium connection : 29'	Rodded	12/03/2012
26	4131	1852-0170	1852-TRNK	HAMPTON RD	Alignment Right Down 25 %: 86'	No action needed.	N/A
27	4131	1851-0106	1851-0109	GODBAY DR	Roots Ball connection : 26'	Rodded	11/30/2012
28	4131	1851-0136	1851-0137	STARLIGHT CREST DR	Roots Ball connection : 19'	Rodded	11/30/2012
29	4131	1851-0150	1851-0149	MEADOWVIEW DR	Roots Ball connection : 217' & 219'	Rodded	11/30/2012
30	4131	1852-0002	1852-0242	STARDUST RD	Roots Medium connection : 14'	Rodded	12/05/2012
31	4131	1852-0203	1852-0202	KNIGHT WY	Roots Medium connection : 25'	Rodded	12/03/2012
32	4131	1852-0027	1852-0024	STARLIGHT CREST DR	Roots Medium connection : 58'	Rodded	11/30/2012
33	4131	1852-0023	1852-0022	STARLIGHT CREST DR	Roots Medium connection :71'	Rodded	12/05/2012
34	4122	1852-0146	1852-0145	EASEMENT	Obstacle Other : 95'	Hydrojet	12/14/2012
35	4121	1852-0247	1852-TRNK	MERITA PL	Alignment Down 45 %: 91'	No action needed.	N/A
36	4121	1851-0104	1851-0105	GODBAY DR	Roots Ball connection	Rodded	11/30/2012
37	4121	1851-0113	1851-0114	EASEMENT	Alignment Down 55 %: 36'	No action needed.	N/A
38	4121	1851-0078	1851-0079	EASEMENT	Alignment up 25 %: 93'	No action needed.	N/A
39	4121	1852-0006	1852-0005	EASEMENT	Alignment Down 45 %: 13'	No action needed.	N/A
40	4121	1852-0246	1852-TRNK	MERO LN	Alignment Left 90%: 93'	No action needed.	N/A
41	4118	1851-0122	1851-0121	EASEMENT	Alignment Down 25 %: 0'	No action needed.	N/A
42	4114	1852-0204	1852-0203	KNIGHT WY	Roots Ball Lateral : 109'	Lateral notice will be sent to property owner.	N/A
43	4112	1852-0212	1852-0211	MELLOW LN	Roots Medium Barrel :35' inside MH 0211	Rodded	12/03/2012
44	4111	1851-0161	1852-0304	STARLIGHT CREST DR	Alignment Down 30 %: 0'	No action needed.	N/A
45	4111	1851-0156	1852-0194	GOULD AV	Roots Ball Lateral : 280'	Lateral notice will be sent to property owner.	N/A
46	4111	1851-0125	1851-0126	BURNING TREE DR	Alignment Down 30 %: 0'	No action needed.	N/A
47	4111	1852-0275	1852-0276	EASEMENT	Alignment Left Down 91 %: 199'	No action needed.	N/A
48	4111	1852-0153	1852-0151	CANON DE PARAISO LN	Roots Medium Joint: 5'	Rodded	12/03/2012

49	4100	1852-0249	1852-0248	MERITA PL	Alignment Down 30 %: 3'	No action needed.	N/A
50	4100	1852-0103	1852-0102	VIRO RD	Alignment Down 30 %: 0'	No action needed.	N/A
51	4100	1852-0229	1852-0228	NOREN ST	Roots Ball connection	Rodded	12/03/2012
52	4100	1852-0093	1852-0094	EASEMENT	Alignment Left 30%: 123'	No action needed.	N/A
53	4100	1852-0087	1852-0091	FOOTHILL FRWY	Alignment Left 30%: 9'	No action needed.	N/A
54	4100	1851-0113	1851-0112	EASEMENT	Alignment Up 25 %: 118'	No action needed.	N/A
55	4100	1852-0218	1852-0214	CROWN AV	Roots Ball connection	Rodded	12/03/2012
56	4100	1852-0291	1852-0292	EASEMENT	Alignment Down 45%: 327'	No action needed.	N/A
57	4100	1852-0242	1852-0243	EASEMENT	Alignment Down 45%: 2'	No action needed.	N/A
58	4100	1852-0276	1852-0275	EASEMENT	Alignment Up 90 %: 5'	No action needed.	N/A
59	4100	1852-0306	1852-0180	EASEMENT	Alignment Left 90 %: 282'	No action needed.	N/A
60	4100	1852-0180	1852-0306	EASEMENT	Alignment Right 70 %: 224'	No action needed.	N/A
61	4100	1852-TRNK	1852-0246	MERO LN	Alignment Left 90 %: 2'	No action needed.	N/A
62	3925	1851-0115	1851-0114	EASEMENT	Obstacle Rocks : 62'-97'	Hydrojet	12/07/2012
63	3412	1851-0143	1851-0142	GLENEAGLES PL	Roots Medium Joint: 57	Rodded	12/05/2012
64	3322	1851-0135	1851-0136	STARLIGHT CREST DR	Roots Medium Joint: 13'	Rodded	11/30/2012
65	3224	1852-0144	1852-0145	EASEMENT	Deposits Attached Encrustation : 12'-21'	Hydrojet	12/14/2012
66	3221	1851-0105	1851-0109	GODBAY DR	Deposits Attached Grease : 126'	Rodded	11/30/2012
67	3221	1852-0024	1852-0023	STARLIGHT CREST DR	Roots Medium Joint: 117'	Rodded	12/05/2012
68	3213	1851-0098	1851-0099	GODBAY DR	Roots Medium Joint	Rodded	11/30/2012
69	3212	1852-0270	1852-0271	STARLANE RD	Roots Medium Joint: 38'	Rodded	12/05/2012
70	3212	1852-0017	1852-0018	DIAMOND POINT LN	Roots Medium Joint: 99'-103'	Rodded	12/03/2012
71	321E	1851-0134	1851-0135	STARLIGHT CREST DR	Roots Medium Lateral :6' & 68'	Lateral notice will be sent to property owner.	N/A
72	321D	1851-0144	1851-0145	MEADOWVIEW DR	Roots Medium Lateral :56' & 122'	Lateral notice will be sent to property owner.	N/A
73	312C	1852-0025	1852-0024	STARLIGHT MESA LN	Roots Medium Joint: 129'	Rodded	11/30/2012
74	311H	1851-0147	1851-0146	MEADOWVIEW DR	Roots Medium Lateral :236'	Lateral notice will be sent to property owner.	N/A
75	311E	1852-0301	1852-0300	ALLEY	Obstacle Construction Debris: 4'	Hydrojet	12/07/2012
76	311A	1851-0146	1851-0145	MEADOWVIEW DR	Roots Medium Joint: 109'	Rodded	12/06/2012
77	3124	1852-0245	1852-0246	MERO LN	Deposits Attached Grease : 232'-252'	Hydrojet	12/12/2012
78	3121	1851-0116	1851-0115	EASEMENT	Water Level Sag, 35 % : 85'-95'	Hydrojet	12/07/2012
79	3121	1852-0219	1852-0218	NOREN ST	Roots Medium Joint: 53'	Rodded	12/05/2012
80	3121	1851-0107	1851-0108	GODBAY DR	Roots Medium Joint: 69'	Rodded	12/06/2012
81	3121	1851-0149	1851-0148	MEADOWVIEW DR	Roots Medium Lateral :226'	Lateral notice will be sent to property owner.	N/A
82	3113	1851-0128	1851-0129	STARLIGHT CREST DR	Roots Medium Joint: 4'	Rodded	12/06/2012
83	3113	1852-0251	1852-0252	WESTSLOPE LN	Roots Medium Lateral :10'	Lateral notice will be sent to property owner.	N/A
84	3112	1852-0279	1852-0001	STARDUST RD	Roots Medium Joint: 210'	Rodded	12/05/2012
85	3112	1852-0018	1852-0017	DIAMOND POINT LN	Roots Medium Joint: 109'	Rodded	12/05/2012
86	3111	1851-0130	1851-0131	STARLIGHT CREST DR	Roots Medium Joint: 86'	Rodded	12/06/2012
87	3111	1852-0232	1852-0231	REDWILLOW LN	Roots Medium Lateral :156'	Lateral notice will be sent to property owner.	N/A
88	3111	1851-0107	1851-0106	GODBAY DR	Roots Medium Joint: 16'	Rodded	12/06/2012
89	3111	1852-0206	1852-0208	EASEMENT	Obstacle Thru connection:60'	Hydrojet	12/07/2012
90	3111	1852-0189	1852-0188	GOULD AV	Roots Medium Lateral :5'	Lateral notice will be sent to property owner.	N/A
91	3100	1851-0091	1851-0090	GALAXY HEIGHTS DR	Roots Medium Joint: 3'	Rodded	12/06/2012
92	3100	1851-0088	1851-0087	EASEMENT	Roots Medium Joint: 42'	Rodded	11/30/2012
93	3100	1852-0198	1852-0199	EASEMENT	Roots Medium Joint: 44'	Rodded	12/06/2012
94	3100	1852-0104	1852-0105	BURGOYNE LN	Roots Medium connection	Rodded	12/06/2012
95	3100	1852-0158	1852-0159	DEL MONTE RD	Roots Tap Barrel: 0.7'	Rodded	12/05/2012
96	3100	1852-0162	1852-0163	SAN JUAN WY	Obstacle Rocks : 221'	Hydrojet	12/07/2012
97	3100	1852-0211	1852-0210	MELLOW LN	Roots Medium Joint: 50'	Rodded	12/05/2012
98	3100	1851-0138	1851-0139	STARLIGHT CREST DR	Deposits Attached Encrustation : 50'	Hydrojet	12/07/2012
99	3100	1851-0111	1851-0110	EASEMENT	Roots Medium Lateral :90'	Lateral notice will be sent to property owner.	N/A
100	3100	1852-0145	1852-0146	EASEMENT	Obstacle Other : 6'	Hydrojet	12/14/2012
101	3100	1852-0178	1852-0177	EASEMENT	Roots Medium Joint: 126'	Rodded	12/05/2012
102	3100	1852-0206	1852-0207	EASEMENT	Deposits Attached Encrustation : 134'	Hydrojet	12/14/2012
103	3100	1852-0321	1852-0322	EASEMENT	Roots Medium Joint: 50'	Rodded	12/06/2012

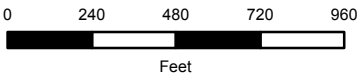
ENCLOSURE 2

CCTV PROJECT

Y0TV0910C

Supervisory District 5
City of
La Canada-Flintridge

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

QMR

- 1: MINOR
- 2: MINOR TO MODERATE
- 3: MODERATE
- 4: SIGNIFICANT
- 5: MOST SIGNIFICANT

SMD Manholes

- Other

Manhole Type

- Standard
- DROP
- Shallow
- Trap
- Siphon

- SMD Pump Stations

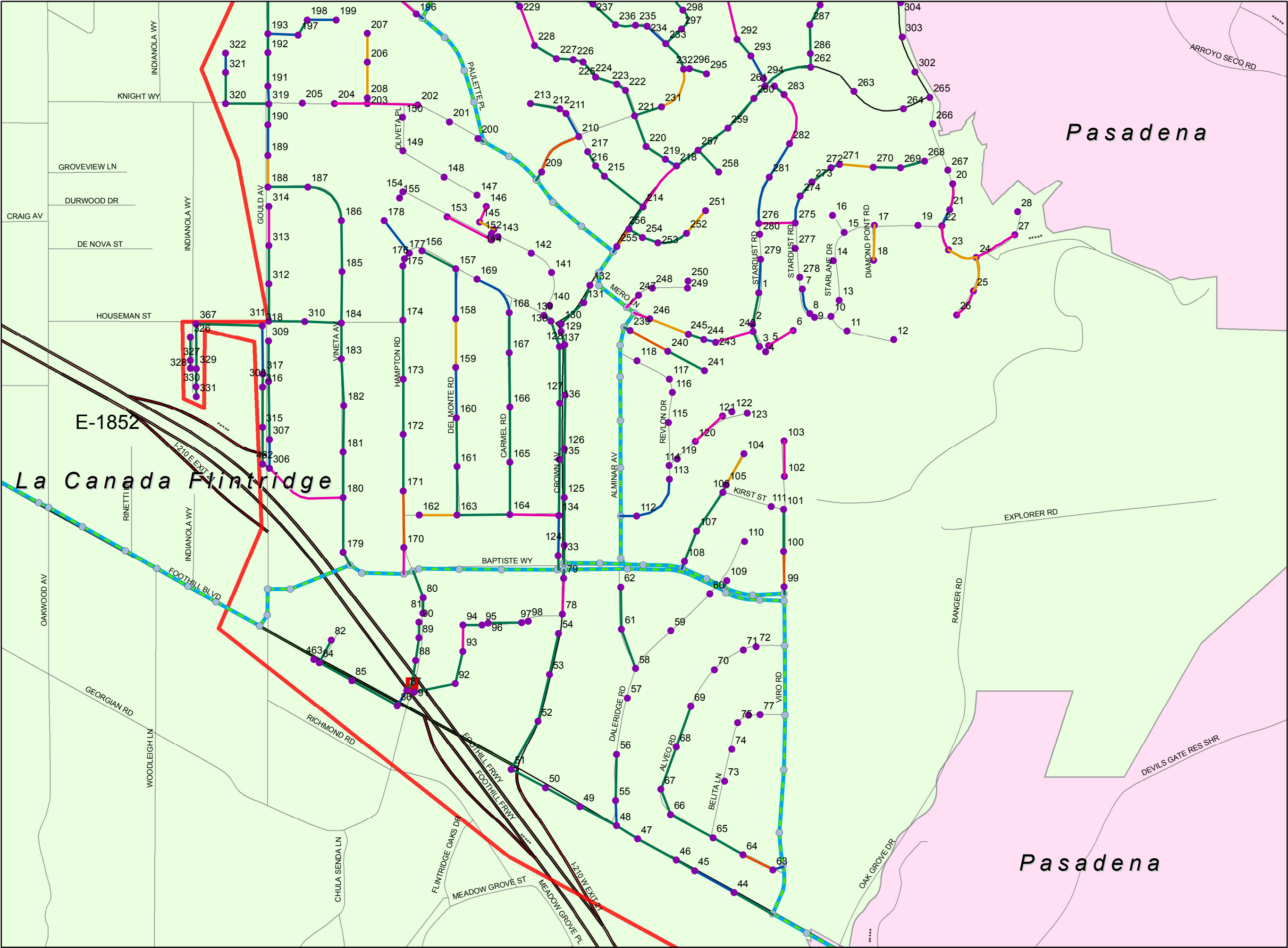
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0910C

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February 2012

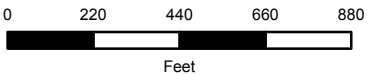


CCTV PROJECT

Y0TV0910C

Supervisory District 5
City of
La Canada-Flintridge

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

- QMR
- 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

- Other

Manhole Type

- Standard
- DROP
- Shallow
- Trap
- Siphon

- SMD Pump Stations

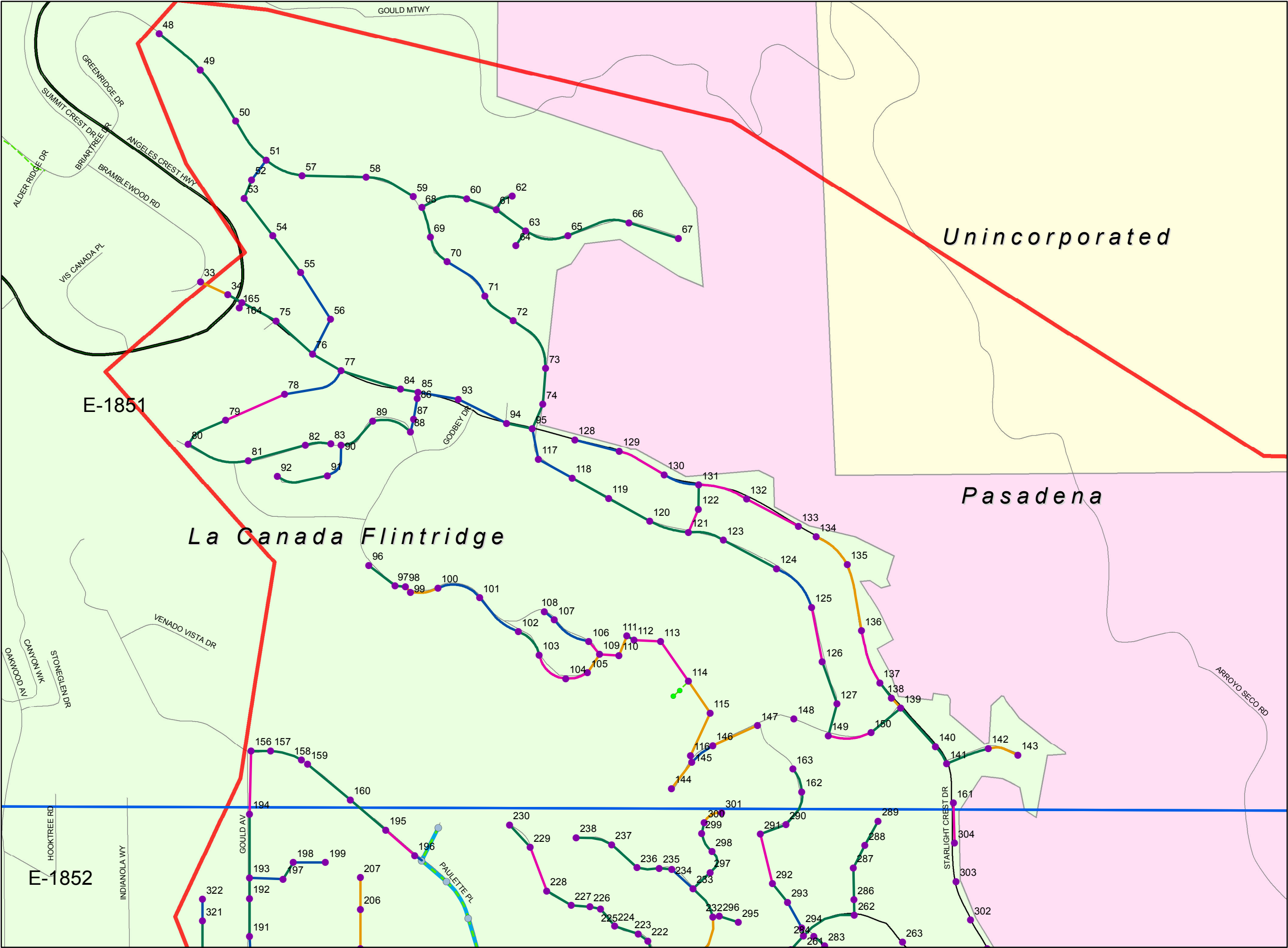
- SMD Treatment Plants

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- Non SMD Sanitary Sewers
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- Y0TV0910C

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February 2012



ENCLOSURE 2
HIGH WATER LEVELS
CITY OF LA CANADA-FLINTRIDGE (Y0TV0910C)
as of 01/27/2011

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (ft)
1	4931	1851-0079	1851-0078	EASEMENT	Water Level Sag, 55 % & Camera Underwater :212' - 248'	350

ENCLOSURE 2
INFILTRATION
CITY OF LA CANADA-FLINTRIDGE (Y0TV0910C)
as of 01/27/2011

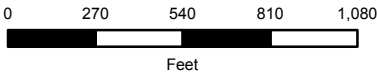
Item No.	QMR	START MH	END MH	STREET	OBSERVATION	Proposed Corrective Method
1	4200	1852-0195	1852-0196	PAULETTE PL	Infil Runner :185'	Infiltration is minimal. No action needed.
2	3121	1851-0116	1851-0115	EASEMENT	Infil Dripper :250'	Infiltration is minimal. No action needed.

CCTV PROJECT

Y0TV0910C

Supervisory District 5
City of
La Canada-Flintridge

HIGH WATER LEVEL
AND
INFILTRATION



Legend

- HIGH WATER LEVELS
- INFILTRATION

SMD Manholes

- Other

Manhole Type

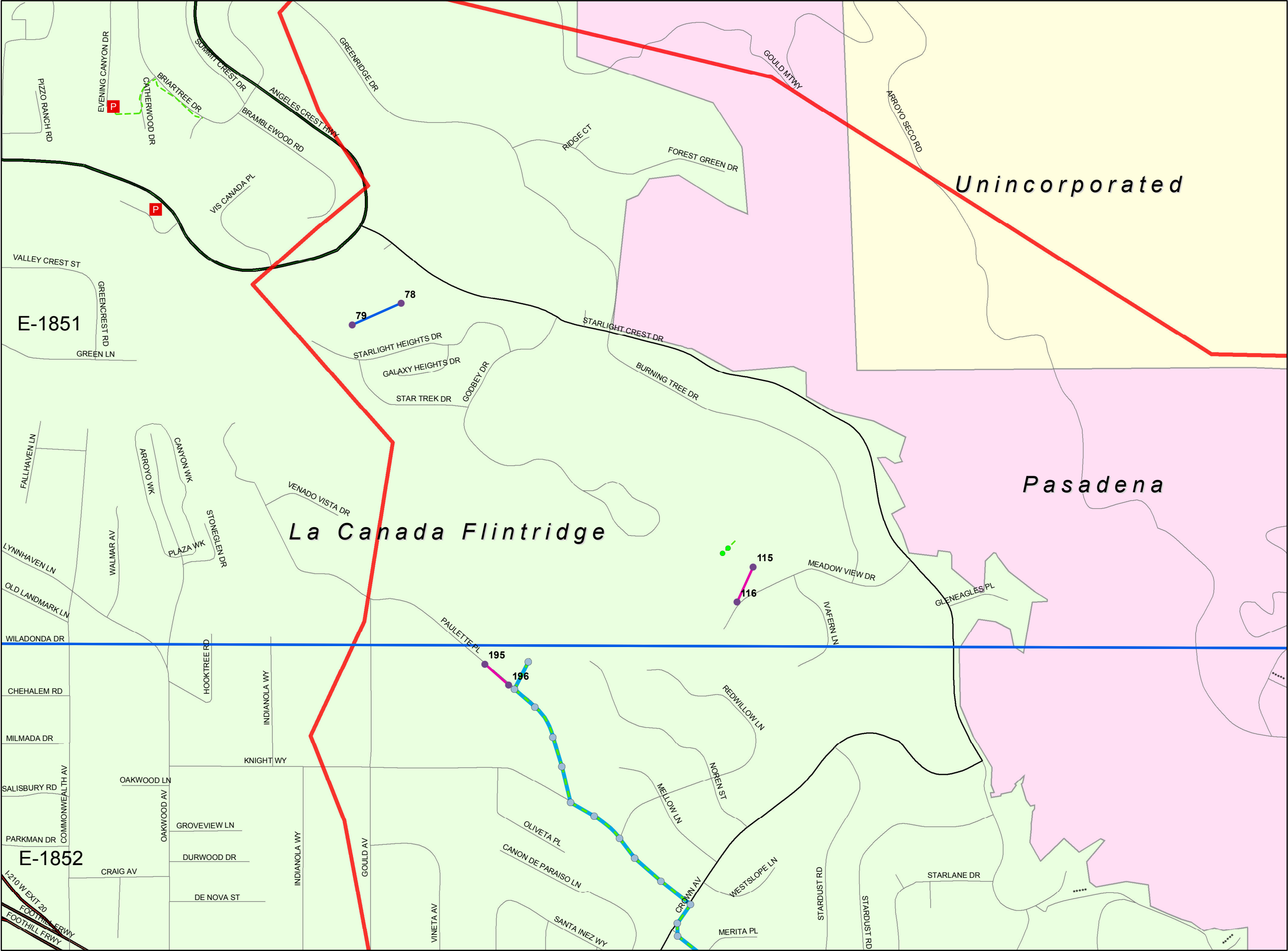
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0910C

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February 2013





GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

{date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Dear:

SEWER LATERAL ROOT INTRUSION

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

"All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order."

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at XXXX to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify the District office, XXXX, Sewer Maintenance Division, at XXXX.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division

XX:

Enc.

XXXX

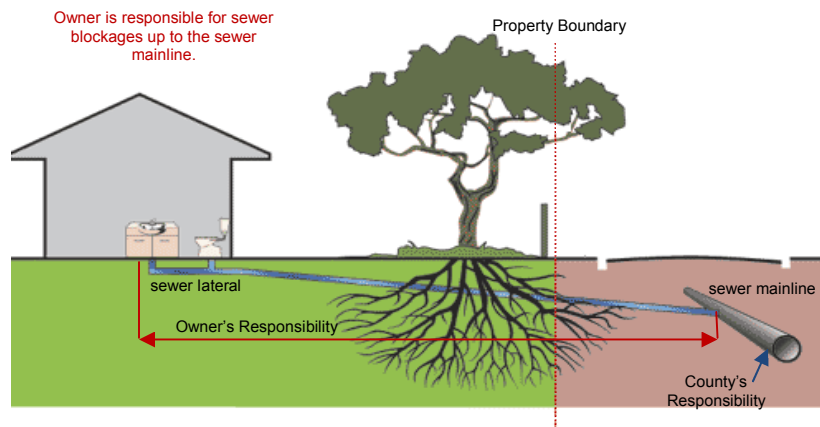
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes the portion that may be located within the public right of way (under the asphalt and street landscaping).

SEWER LATERALS – AREAS OF RESPONSIBILITY



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. “Out of sight, out of mind” is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF LA CANADA-FLINTRIDGE (Y0TV0910C)
as of 01/27/2011

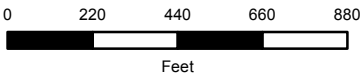
ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE ACTION	LENGTH (FT)
1	513B	1851-0033	1851-0034	EASEMENT	Broken with visible void: base of MH 34	CSMD will repair base of MH 34.	
2	513A	1852-0134	1852-0164	SAN JUAN WY	Broken/fractures: 2'	Structural integrity intact. No action needed.	
3	5142	1851-0078	1851-0079	EASEMENT	Broken : 99' - 101'	Point Repair	
4	5141	1851-0117	1851-0118	BURNING TREE DR	Fractures: 167', 180'; hole at base of MH 118	CSMD will repair base of MH 118.	
5	5141	1851-0147	1851-0146	MEADOWVIEW DR	Fractures/cracks; multiple locations; broken base at MH 146	Lining: MH to MH ; CSMD will repair base of MH 146	263
6	5121	1851-0100	1851-0101	GODBEY DR	Broken: 25'; fractures	Lining: MH to MH	150
7	5121	1852-0012	1852-0011	MARINERS VIEW LN	Broken (tap break-in): 113'; fractures: 255'	Structural integrity intact. No action needed.	
8	5100	1852-0009	1852-0008	STARDUST RD	Hole at base of MH 8	CSMD will repair base of MH 8.	
9	423D	1851-0095	1851-0117	BURNING TREE DR	Fractures: 75', 159'; infiltration: 82'; cracks	Lining: MH to MH	175
10	4122	1851-0150	1851-0149	MEADOWVIEW DR	Broken at base of MH 149	CSMD will repair base of MH 149.	

CCTV PROJECT

Y0TV0910C

Supervisory District 5
City of
La Canada-Flintridge

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

QSR

- 1: MINOR
- 2: MINOR TO MODERATE
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SMD Manholes

- Other

Manhole Type

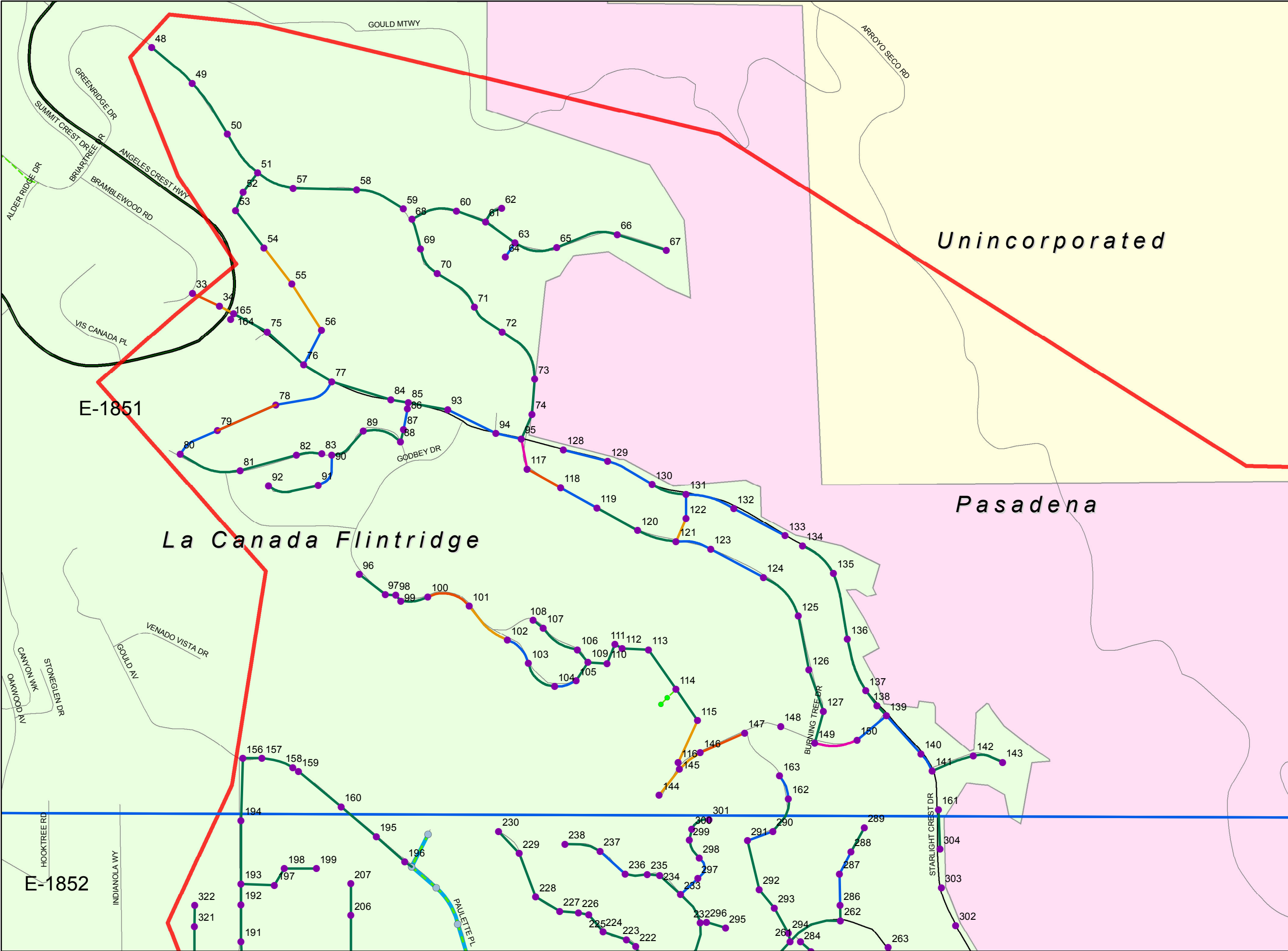
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0910C

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February 2012



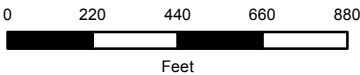
ENCLOSURE 3

CCTV PROJECT

Y0TV0910C

Supervisory District 5
City of
La Canada-Flintridge

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

QSR

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SMD Manholes

- Other

Manhole Type

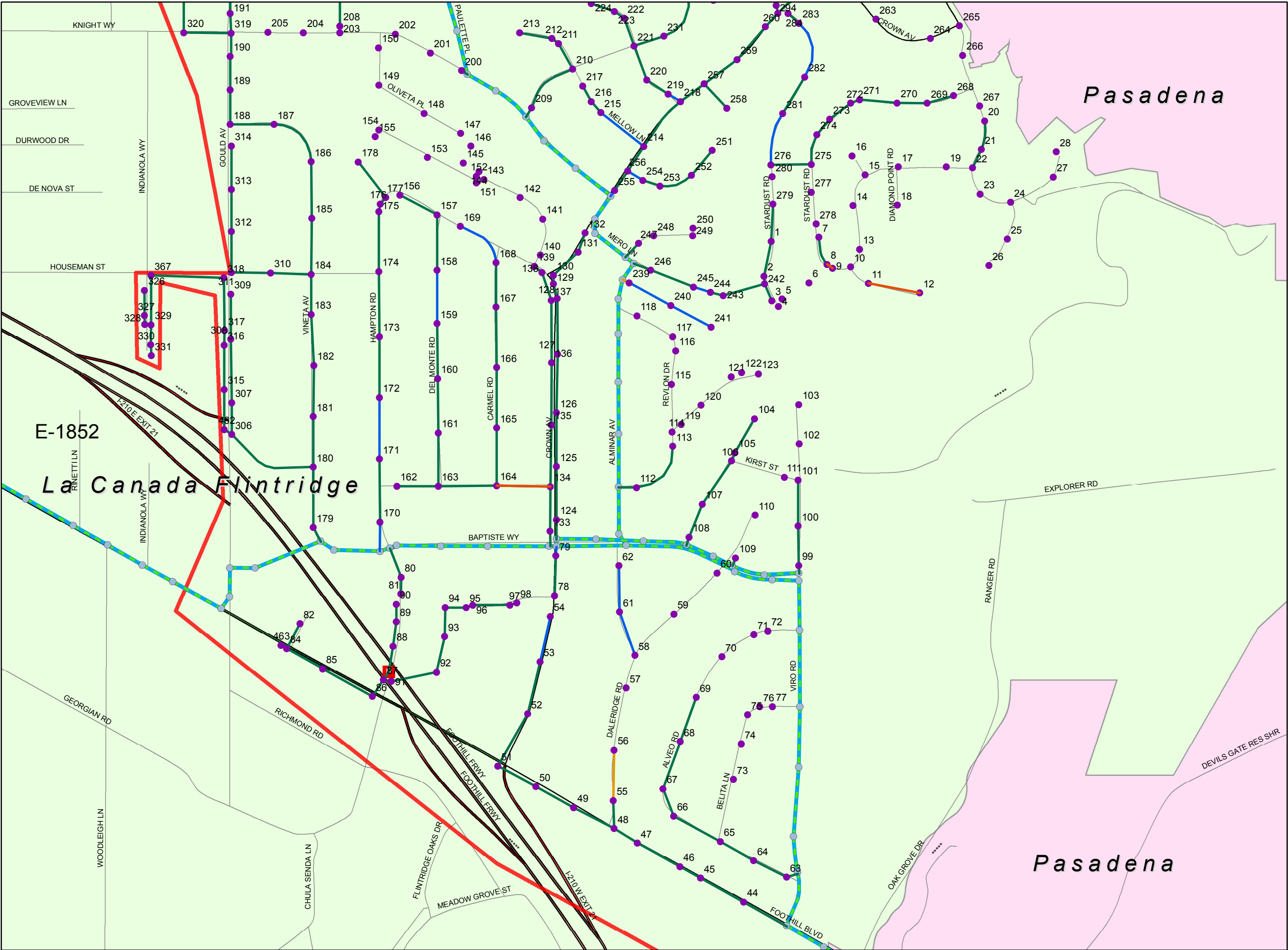
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February 2012



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



WinCan America, Inc.
1730 Montano Road NE, Suite E
Albuquerque, NM 87107
Tel: (505) 341.0109, Fax: (505) 341.0133

Inspection report

Date: 20110120	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 3636	PSR: 56064
Total Pipe Length: 162.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/19/2011	Pre-Cleaned: Jetting	Map Grid #: 0

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1851-0033
City: LCF	Year Renewed	End MH: 1851-0034
Location Code: Easement/Right of Way	Tape/Media #: G313-069	pipe length: 166.8 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe	Pipe Length:
Drain. Area: 0033/1851-0034/1851	Lining Method:	
	Category:	

Remark::

1:375	position	observation	grade				
0			0 FT // 00:00:23 6 FT // 00:02:55 68.7 FT // 00:04:55 68.7 FT // 00:05:09 88.6 FT // 00:06:00				
	1851-0033	Manhole, within 8 inch: NO, Remarks: 1851-0033					
	0.00						
	6.00 S1	Water Level Sag, 40 %, within 8 inch: NO, Start	M 3				
	68.70 F1	Water Level Sag, 40 %, within 8 inch: NO, End	M 3				
	68.70	Water Level, 15 %, within 8 inch: NO	M 2				
	88.60	Alignment Down, 10 %, within 8 inch: NO	M 1				
	101.00	Alignment Down, 15 %, within 8 inch: NO	M 2				
	127.20 S2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	S 3				
	129.10	Joint Offset Medium, within 8 inch: YES	S 1				
	129.10 F2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	S 3				
	129.10	Alignment Down, 20 %, within 8 inch: NO	M 2				
	140.20	Intruding Sealing Ring Loose/Poorly Fitting, from 10 to 12 o'clock, 10 % within 8 inch: NO	M 2				
	166.80	Broken Void Visible, from 4 to 8 o'clock, within 8 inch: NO	S 5				
	1851-0034	Manhole, within 8 inch: NO, Remarks: 1851-0034					
	166.80						
2							
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5132	3223	12	13	25	3	2.17	2.5



Inspection report

Date: 20110110	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 3566	PSR: 55960
Total Pipe Length: 246.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/07/2011	Pre-Cleaned: Jetting	Map Grid #: 0

Street: MEADOWVIEW DR	Flow Control: Not Controlled	Start MH: 1851-0150
City: LCF	Year Renewed	End MH: 1851-0149
Location Code: Light Highway	Tape/Media #: G313-063	pipe length: 226.5 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:	
Drain. Area: 0149/1851-0150/1851	Lining Method:	
	Category:	

Remark::

1:525	position	observation	grade	
7			0 FT // 00:00:31 5 FT // 00:01:30 50.8 FT // 00:02:38 127.3 FT // 00:04:39 130.1 FT // 00:05:07	
	1851-0150	Manhole, within 8 inch: NO, Remarks: 1851-0150		
	5.00	Water Level, 15 %, within 8 inch: NO	M 2	
	50.80	Tap Factory Active, at 12 o'clock, 4", within 8 inch: NO		
	127.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		
	130.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO		
	153.00	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		
	154.10	Roots Ball Joint, from 6 to 10 o'clock, 55 %, within 8 inch: YES		
	154.10	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES		
	176.70	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	S 1	
	176.70	Roots Medium Joint, from 2 to 5 o'clock, 25 %, within 8 inch: YES		
	197.10	Roots Fine Joint, from 5 to 10 o'clock, within 8 inch: YES		
	217.60	Roots Ball Joint, from 5 to 10 o'clock, 55 %, within 8 inch: YES		
	219.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		
	219.40	Roots Ball Connection, from 6 to 10 o'clock, 55 %, within 8 inch: NO	M 4	
	220.60	Roots Medium Joint, from 7 to 5 o'clock, 15 %, within 8 inch: YES		
	220.70	Fracture Circumferential, from 3 to 7 o'clock, within 8 inch: YES	S 2	
	220.70	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	
	226.50	Broken, from 7 to 9 o'clock, within 8 inch: NO	S 4	
	226.50	Manhole, within 8 inch: NO, Remarks: 1851-0149		
3				
QSR	QMR	SPR	MPRI	OPRI
4122	4121	9	6	15
			2.25	3
				2.5



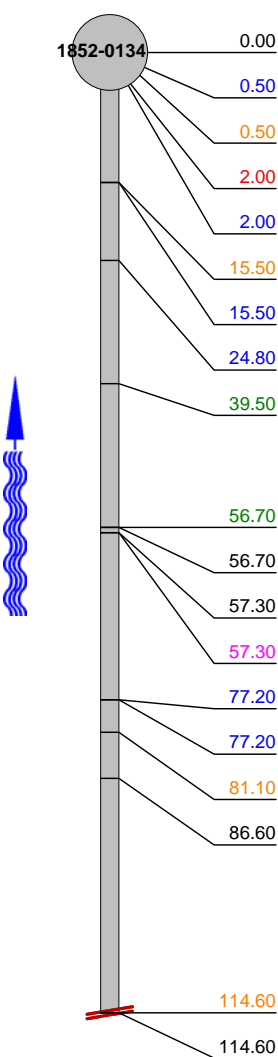
WinCan America, Inc.
1730 Montano Road NE, Suite E
Albuquerque, NM 87107
Tel: (505) 341.0109, Fax: (505) 341.0133

Inspection report

Date: 20101228	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 3220	PSR: 55776
Total Pipe Length: 300.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 12/27/2010	Pre-Cleaned: Jetting	Map Grid #: 0

Street: SAN JUAN WY	Flow Control: Not Controlled	Start MH: 1852-0134
City: LCF	Year Renewed	End MH: 1852-0164
Location Code: Light Highway	Tape/Media #: G313-056	pipe length: 114.6 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"	Pipe Length:
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe	
Drain. Area: 0164/1852-0134/1852	Lining Method:	
	Category:	

Remark::

1:275	position	observation	grade				
3							
0 FT // 00:00:25 0.5 FT // 00:01:44 0.5 FT // 00:01:44 0.5 FT // 00:02:01 0.5 FT // 00:02:01							
	1852-0134 0.00	Manhole, within 8 inch: NO, Remarks: 1852-0134					
	0.50	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	S 2				
	0.50 S1	Water Level Sag, 45 %, within 8 inch: NO, Start	M 3				
	2.00	Broken Soil Visible, from 7 to 6 o'clock, within 8 inch: NO	S 5				
	2.00	Roots Fine Barrel, from 7 to 6 o'clock, within 8 inch: NO	M 2				
	15.50 F1	Water Level Sag, 45 %, within 8 inch: NO, End	M 3				
	15.50	Water Level, 15 %, within 8 inch: NO	M 2				
	24.80 S2	Water Level Sag, 30 %, within 8 inch: NO, Start	M 2				
	39.50	Joint Offset Medium, within 8 inch: YES	S 1				
	56.70	Joint Offset Medium, within 8 inch: YES	S 1				
	56.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES					
	57.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO					
	57.30	Roots Ball Lateral, at 9 o'clock, 55 %, within 8 inch: NO	M 4				
	77.20 F2	Water Level Sag, 30 %, within 8 inch: NO, End	M 2				
	77.20	Water Level, 15 %, within 8 inch: NO	M 2				
	81.10 S3	Water Level Sag, 45 %, within 8 inch: NO, Start	M 3				
	86.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO					
	114.60 F3	Water Level Sag, 45 %, within 8 inch: NO, End	M 3				
	114.60	Abandoned Survey, within 8 inch: NO, Remarks: COMPLETES INSPECTION OF E					
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	4134	9	26	35	2.25	2.6	2.5



WinCan America, Inc.
1730 Montano Road NE, Suite E
Albuquerque, NM 87107
Tel: (505) 341.0109, Fax: (505) 341.0133

Inspection report

Date: 20110120	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 3640	PSR: 55999
Total Pipe Length: 350.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/19/2011	Pre-Cleaned: Jetting	Map Grid #: 0

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1851-0078
City: LCF	Year Renewed	End MH: 1851-0079
Location Code: Easement/Right of Way	Tape/Media #: G313-069	pipe length: 101.1 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe	Pipe Length:
Drain. Area: 0078/1851-0079/1851	Lining Method:	
	Category:	

Remark::

1:225	position	observation	grade
0			0 FT // 00:00:29 0 FT // 00:00:40 2.9 FT // 00:00:58 83.7 FT // 00:04:39 83.7 FT // 00:04:39
	1851-0078 0.00	Manhole, within 8 inch: NO, Remarks: 1851-0078	
	0.00	Water Level, 15 %, within 8 inch: NO	M 2
	2.90	Water Mark, 25 %, within 8 inch: NO	M 2
	83.70	Alignment Up, 20 %, within 8 inch: NO	M 2
	93.90	Alignment Up, 25 %, within 8 inch: NO	M 4
	99.80 S1	Broken, from 7 to 5 o'clock, within 8 inch: YES, Start	S 5
	100.70	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	100.70	Deformed, 10 %, within 8 inch: NO	S 4
	101.10 F1	Broken, from 7 to 5 o'clock, within 8 inch: YES, End	S 5
	101.10	Water Level, 95 %, within 8 inch: NO	M 2
	101.10	General Observation, within 8 inch: NO, Remarks: POSSIBLE SIPHON, PIPE BRO	
	101.10	Abandoned Survey, within 8 inch: NO, Remarks: COMPLETES INSPECTION OF E	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5242	4124	18	12	30	4.5	2.4	3.33



WinCan America, Inc.
1730 Montano Road NE, Suite E
Albuquerque, NM 87107
Tel: (505) 341.0109, Fax: (505) 341.0133

Inspection report

Date: 20110110	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 3657	PSR: 55928
Total Pipe Length: 250.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/07/2011	Pre-Cleaned: Jetting	Map Grid #: 1851

Street: BURNING TREE DR	Flow Control: Not Controlled	Start MH: 1851-0117
City: LCF	Year Renewed	End MH: 1851-0118
Location Code: Light Highway	Tape/Media #: M315-071	pipe length: 250.4 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 10"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe	Pipe Length:
Drain. Area: 0117/1851-0118/1851	Lining Method:	
	Category:	

Remark::

1:575	position	observation	grade
			0 FT // 00:00:19 6.4 FT // 00:01:59 7.7 FT // 00:02:28 7.7 FT // 00:02:28 10 FT // 00:02:49
	0.00	Manhole, within 8 inch: NO, Remarks: 1851-0117	
	6.40	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	
	7.70	Crack Circumferential, from 12 to 9 o'clock, within 8 inch: YES	S 1
	10.00	Water Level, 25 %, within 8 inch: NO	M 2
	24.40	Water Level, 15 %, within 8 inch: NO	M 2
	97.00	Water Level, 10 %, within 8 inch: NO	M 2
	104.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	104.10	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	M 1
	141.60	Alignment Down, 15 %, within 8 inch: NO	M 2
	167.40	Fracture Multiple, from 9 to 5 o'clock, within 8 inch: YES	S 4
	178.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	180.40	Fracture Circumferential, from 7 to 12 o'clock, within 8 inch: YES	S 2
	180.40	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	S 1
	250.30	Hole Soil Visible, from 3 to 9 o'clock, within 8 inch: NO, Remarks: in channel of manhole	S 5
	250.40	Manhole, within 8 inch: NO, Remarks: 1851-0118	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2411	13	9	22	2.6	1.8	2.2



Inspection report

Date: 20110121	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 3641	PSR: 55957
Total Pipe Length: 266.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/20/2011	Pre-Cleaned: Jetting	Map Grid #: 0

Street: MEADOWVIEW DR	Flow Control: Not Controlled	Start MH: 1851-0147
City: LCF	Year Renewed	End MH: 1851-0146
Location Code: Light Highway	Tape/Media #: G313-070	pipe length: 263.1 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe	Pipe Length:
Drain. Area: 0146/1851-0147/1851	Lining Method:	
	Category:	

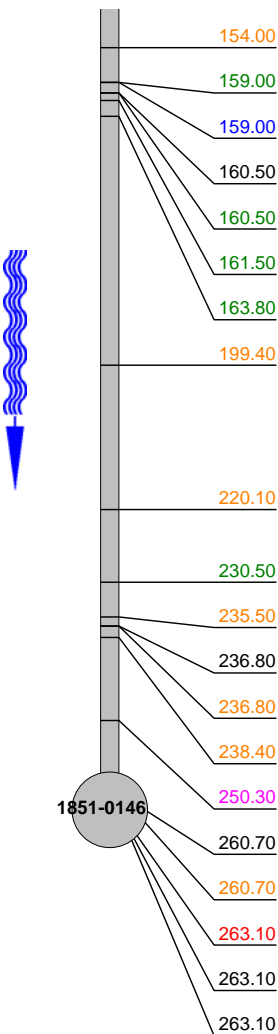
Remark::

1:330	position	observation	grade
16			
			0 FT // 00:00:33 5 FT // 00:01:28 13 FT // 00:01:55 13 FT // 00:01:55 18.1 FT // 00:03:09
	0.00	Manhole, within 8 inch: NO, Remarks: 1851-0147	
	5.00	Water Level, 15 %, within 8 inch: NO	M 2
	13.00	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	
	18.10	Crack Multiple, from 10 to 12 o'clock, within 8 inch: YES	S 3
	33.80	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	
	33.80	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	S 1
	33.80	Crack Longitudinal, at 1 o'clock, within 8 inch: YES	S 2
	54.10	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: YES	S 1
	54.10	Crack Circumferential, from 7 to 10 o'clock, within 8 inch: YES	S 1
	54.10	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	
	64.40	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	
	65.90	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	87.50	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	
	92.70	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	
	99.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	99.30	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	M 1
	103.00	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	
	108.00	Crack Multiple, from 11 to 3 o'clock, within 8 inch: YES	S 3
	123.50	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	
	123.50	Crack Multiple, from 10 to 5 o'clock, within 8 inch: YES	S 3
	128.40	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	
	133.60	Roots Fine Joint, from 2 to 10 o'clock, within 8 inch: YES	
	138.60	Fracture Circumferential, from 8 to 10 o'clock, within 8 inch: YES	S 2
	143.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	



Inspection report

Date: 20110121	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 3641	PSR: 55957
Total Pipe Length: 266.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/20/2011	Pre-Cleaned: Jetting	Map Grid #: 0

1:330	position	observation	grade				
	154.00	Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES	S 3				
	159.00	Crack Circumferential, from 7 to 10 o'clock, within 8 inch: YES	S 1				
	159.00	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	S 2				
	160.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	160.50	Roots Fine Connection, from 7 to 9 o'clock, within 8 inch: NO	M 1				
	161.50	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	S 1				
	163.80	Crack Circumferential, from 1 to 4 o'clock, within 8 inch: YES	S 1				
	199.40	Crack Multiple, from 10 to 5 o'clock, within 8 inch: YES	S 3				
	220.10	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	S 3				
	230.50	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	S 1				
	235.50	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3				
	236.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	236.80	Roots Medium Lateral, at 9 o'clock, 30 %, within 8 inch: NO	M 3				
	238.40 S2	Crack Multiple, from 11 to 3 o'clock, within 8 inch: YES, Start	S 3				
	250.30	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4				
	260.70 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End					
	260.70 F2	Crack Multiple, from 11 to 3 o'clock, within 8 inch: YES, End	S 3				
	263.10	Broken, from 4 to 8 o'clock, within 8 inch: NO	S 5				
	263.10	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES					
	263.10	Manhole, within 8 inch: NO, Remarks: 1851-0146					
20							
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	3121	49	7	56	2.33	1.75	2.24

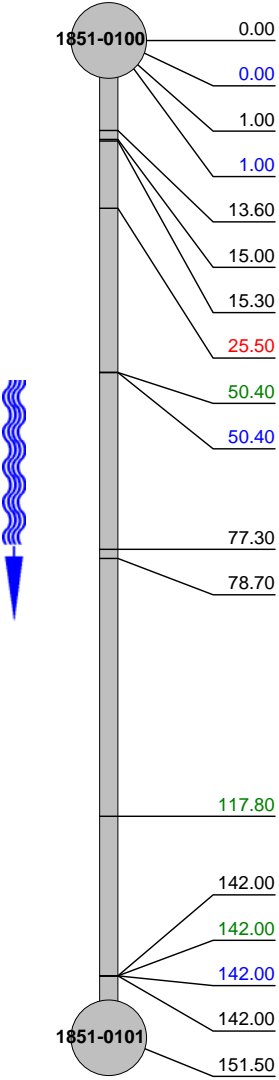
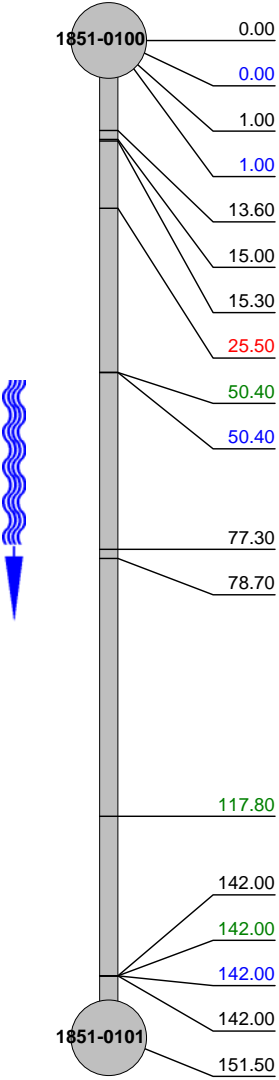


Inspection report

Date: 20110110	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 3571	PSR: 56020
Total Pipe Length: 255.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/10/2011	Pre-Cleaned: Jetting	Map Grid #: 0

Street: GODBEY DR	Flow Control: Not Controlled	Start MH: 1851-0100
City: LCF	Year Renewed	End MH: 1851-0101
Location Code: Light Highway	Tape/Media #: G313-063	pipe length: 151.5 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:	
Drain. Area: 0100/1851-0101/1851	Lining Method:	
	Category:	

Remark::

1:350	position	observation	grade
3			
	0.00	Manhole, within 8 inch: NO, Remarks: 1851-0100	0 FT // 00:00:36
	0.00	Water Level, 10 %, within 8 inch: NO	M 2
	1.00	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES	
	1.00	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	S 2
	13.60	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	
	15.00	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	
	15.30 S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	
	25.50	Broken Soil Visible, from 3 to 7 o'clock, within 8 inch: YES	S 5
	50.40	Joint Offset Medium, within 8 inch: YES	S 1
	50.40 S2	Alignment Right, 15 %, within 8 inch: NO, Start	M 2
	77.30	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	
	78.70	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	
	117.80	Crack Circumferential, from 3 to 6 o'clock, within 8 inch: YES	S 1
	142.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	142.00	Joint Separated Medium, within 8 inch: YES	S 1
	142.00 F2	Alignment Right, 15 %, within 8 inch: NO, End	M 2
	142.00 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	
	151.50	Manhole, within 8 inch: NO, Remarks: 1851-0101	
2			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	2300	10	6	16	2	2	2



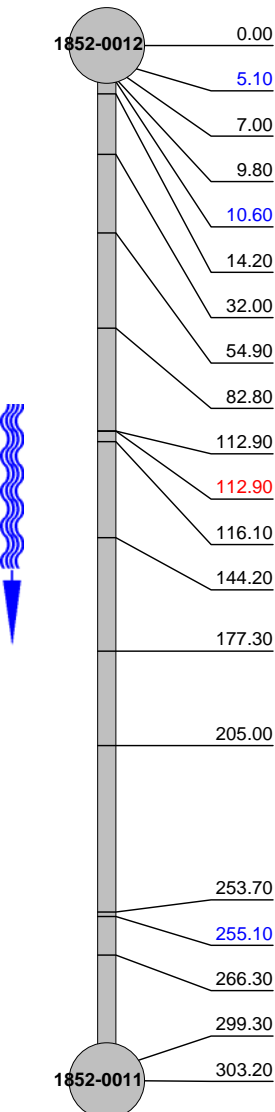
WinCan America, Inc.
1730 Montano Road NE, Suite E
Albuquerque, NM 87107
Tel: (505) 341.0109, Fax: (505) 341.0133

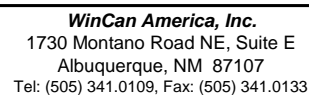
Inspection report

Date: 20110103	P.O.#: Y0TV0910C	Weather: Light Rain	Surveyed By: Martin Garcia	section number: 3411	PSR: 55876
Total Pipe Length: 273.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 12/29/2010	Pre-Cleaned: Jetting	Map Grid #: 1852

Street: MARINERS VIEW LN	Flow Control: Not Controlled	Start MH: 1852-0012
City: LCF	Year Renewed	End MH: 1852-0011
Location Code: Light Highway	Tape/Media #: M315-068	pipe length: 303.2 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe	Pipe Length:
Drain. Area: 0012/1852-0011/1852	Lining Method:	
	Category:	

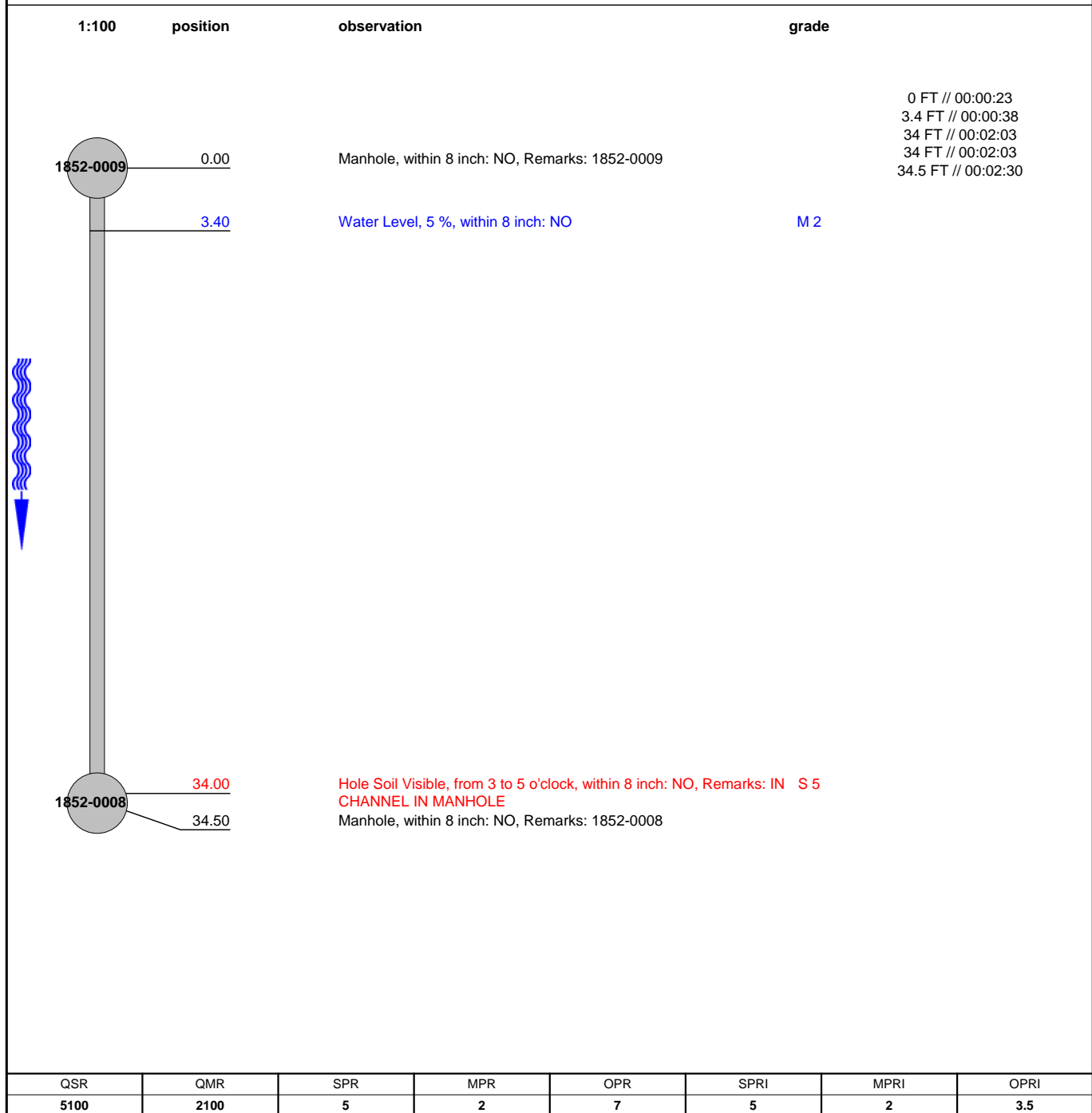
Remark::

1:675	position	observation	grade				
			0 FT // 00:00:20 5.1 FT // 00:00:44 7 FT // 00:01:08 9.8 FT // 00:01:26 10.6 FT // 00:01:35				
							
	1852-0012	Manhole, within 8 inch: NO, Remarks: 1852-0012					
	5.10	Water Level, 5 %, within 8 inch: NO	M 2				
	7.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	9.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO					
	10.60	Water Level, 10 %, within 8 inch: NO	M 2				
	14.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	32.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO					
	54.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	82.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO					
	112.90	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO					
	112.90	Hole, from 1 to 5 o'clock, within 8 inch: NO	S 5				
	116.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	144.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO					
	177.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	205.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO					
	253.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	255.10	Fracture Circumferential, from 8 to 11 o'clock, within 8 inch: YES	S 2				
	266.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO					
	299.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO					
	1852-0011	Manhole, within 8 inch: NO, Remarks: 1852-0011					
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	2200	7	4	11	3.5	2	2.75



Date: 20110103	P.O.#: Y0TV0910C	Weather: Light Rain	Surveyed By: Martin Garcia	section number: 3415	PSR: 55872
Total Pipe Length: 43.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 12/29/2010	Pre-Cleaned: Jetting	Map Grid #: 1852

Street:	STARDUST RD	Flow Control:	Not Controlled	Start MH:	1852-0009
City:	LCF	Year Renewed		End MH:	1852-0008
Location Code:	Light Highway	Tape/Media #:	M315-068	pipe length:	34.5 ft
Reason for inspection:	Routine Assessment		Dia/Height:	Circular 8"	
Use of Sewer:	Sanitary		Material:	Vitrified Clay Pipe Pipe Length:	
Drain. Area:	0009/1852-0008/1852		Lining Method:		
Remark::					





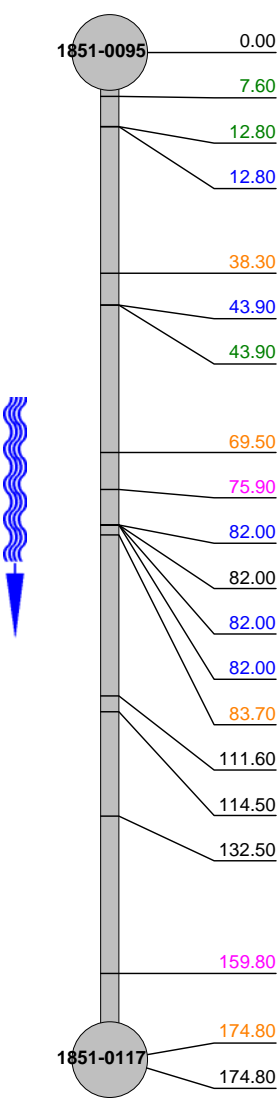
WinCan America, Inc.
1730 Montano Road NE, Suite E
Albuquerque, NM 87107
Tel: (505) 341.0109, Fax: (505) 341.0133

Inspection report

Date: 20110110	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 3656	PSR: 56015
Total Pipe Length: 175.00	Survey Customer: LACDPW	System Owner: LCF	Clean Date: 01/07/2011	Pre-Cleaned: Jetting	Map Grid #: 1851

Street: BURNING TREE DR	Flow Control: Not Controlled	Start MH: 1851-0095
City: LCF	Year Renewed	End MH: 1851-0117
Location Code: Light Highway	Tape/Media #: M315-071	pipe length: 174.8 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 10"	
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe	Pipe Length:
Drain. Area: 0095/1851-0117/1851	Lining Method:	
	Category:	

Remark::

1:400	position	observation	grade				
<div>0 FT // 00:00:19 7.6 FT // 00:03:02 7.6 FT // 00:03:02 12.8 FT // 00:04:42 12.8 FT // 00:04:42</div>							
	1851-0095 0.00	Manhole, within 8 inch: NO, Remarks: 1851-0095					
	7.60	Crack Circumferential, from 9 to 4 o'clock, within 8 inch: YES	S 1				
	12.80	Crack Circumferential, from 3 to 9 o'clock, within 8 inch: YES	S 1				
	12.80	Water Level, 25 %, within 8 inch: NO	M 2				
	38.30	Crack Multiple, from 7 to 4 o'clock, within 8 inch: YES	S 3				
	43.90	Water Level, 15 %, within 8 inch: NO	M 2				
	43.90	Crack Circumferential, from 8 to 3 o'clock, within 8 inch: YES	S 1				
	69.50	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3				
	75.90	Fracture Multiple, from 12 to 9 o'clock, within 8 inch: YES	S 4				
	82.00	Fracture Circumferential, from 2 to 4 o'clock, within 8 inch: YES	S 2				
	82.00	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO					
	82.00	Crack Longitudinal, at 12 o'clock, within 8 inch: NO	S 2				
	82.00	Infil Weeper, at 12 o'clock, within 8 inch: NO	M 2				
	83.70 S1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	S 3				
	111.60	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO					
	114.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO					
	132.50	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO					
	159.80	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4				
	174.80 F1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	S 3				
	174.80	Manhole, within 8 inch: NO, Remarks: 1851-0117					
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4234	2300	27	6	33	2.45	2	2.36